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### SYSTEM AND METHOD FOR EFFICIENTLY SEARCHING A FORWARDING DATABASE ...

Each **sub-database** is pointed to by a pointer within a pointer **table**. ... Thus, **routing** through the **forwarding** devices can be changed dynamically as ... [0011] Another technique used to divide a **database** may involve use of a **tree** or **trie**. .... Since both nodes have more than the **maximum number of prefixes** (i.e., ...

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According to Lemma 1, the **maximum number of prefixes** .... **forwarding table updating**. It should be realized that the 1-bit **trie** is only responsible for B-MIPS **table** construction and ... adopted for each of the groups to produce a B-MIPS **subtable** .... number of memory accesses on the 1-bit **trie** per **routing table** ...

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